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AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) A method for the preparation of virus-inactivated thrombin comprising the steps of:
 - (a) <u>subjecting solvent-detergent virus inactivating of</u> a solution comprising prothrombin and factor X to a virus inactivation procedure, by adding solvent and detergent to said solution, wherein the solvent is tri-n-butyl phosphate;
 - (b) loading the product of step (a) onto an anion exchange medium;
 - (c) washing the anion exchange medium to remove reagents used for the solventdetergent virus inactivating the virus procedure in step (a); and
 - (d) activating the prothrombin on the anion exchange medium to form thrombin by addition of metal ions, wherein a fraction of the thrombin has a specific activity of at least 2000 International Units per mg of protein.
- 2. (Previously presented) The method according to claim 1, wherein the solution comprising prothrombin and factor X is a prothrombin complex.
- 3. (Currently amended) A method for the preparation of virus-inactivated thrombin comprising the steps of:
 - (a) <u>subjecting solvent-detergent virus inactivating of</u> a solution comprising factor X to a virus inactivation procedure, by adding solvent and detergent to said solution, wherein the solvent is tri-n butyl phosphate;
 - (b) loading the product of step (a) onto an anion exchange medium;
 - (c) washing the anion exchange medium to remove reagents used for the solventdetergent virus inactivating the virus inactivation procedure in step (a);
 - (d) activating the factor X on the anion exchange medium to form factor Xa by addition of metal ions; and
 - (e) loading virus-inactivated prothrombin onto the anion exchange medium such that thrombin is generated, wherein a fraction of the thrombin has a specific activity of at least 2000 International Units per mg of protein.
- 4. **(Previously presented)** The method according to claim 1 or 3 wherein the metal ions are divalent metal ions.

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5. **(Previously presented)** The method according to claim 4 wherein the divalent metal ions are magnesium and/or calcium ions.

- 6. (Previously presented) The method according to claim 1, further comprising the step of
 - (e) selectively eluting the thrombin from the anion exchange medium.
- 7. (Previously presented) The method according to claim 6, further comprising the steps of
 - (f) passing the product of step (e) through a filter which retains pathogens;
 - (g) adding a divalent metal ion and a carbohydrate to the product of step (f), and
 - (h) freeze-drying and heat-treating the product of step (g) to inactivate viruses.

8-13. (Canceled)

- 14. (Previously presented) The method according to claim 3, further comprising the step of
 - (f) selectively eluting the thrombin from the anion exchange medium.
- 15. (Previously presented) The method according to claim 14, further comprising the steps of
 - (g) passing the product of step (f) through a filter which retains pathogens;
 - (h) adding a divalent metal ion and a carbohydrate to the product of step (g), and
 - (i) freeze-drying and heat-treating the product of step (h) to inactivate viruses.
- 16. (Currently amended) A method for the preparation of virus-inactivated thrombin comprising the steps of:
 - (a) loading a solution comprising prothrombin and factor X onto an anion exchange medium; and
 - (b) <u>subjecting solvent-detergent virus inactivating of</u> the prothrombin and factor X to a virus inactivation procedure by adding solvent and detergent to said prothrombin and <u>factor X</u> on the anion exchange medium, <u>wherein the solvent is tri-n-butyl phosphate</u>;[[.]]
 - (c) washing the anion exchange medium to remove reagents used for the solventdetergent virus inactivating the virus procedure in step (b)(a); and

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(d) activating the prothrombin on the anion exchange medium to form thrombin by addition of metal ions, wherein a fraction of the thrombin has a specific activity of at least 2000 International Units per mg of protein.

- 17. (**Previously presented**) The method according to claim 16 wherein the metal ions are divalent metal ions.
- 18. (**Previously presented**) The method according to claim 17 wherein the divalent metal ions are magnesium and/or calcium ions.
- 19. (Previously presented) The method according to claim 16, further comprising the step of
 - (e) selectively eluting the thrombin from the anion exchange medium.
- 20. (Previously presented) The method according to claim 19, further comprising the steps of
 - (f) passing the product of step (e) through a filter which retains pathogens;
 - (g) adding a divalent metal ion and a carbohydrate to the product of step (f), and
 - (h) freeze-drying and heat-treating the product of step (g) to inactivate viruses.
- 21. (Currently amended) A method for the preparation of virus-inactivated thrombin comprising the steps of:
 - (a) loading a solution comprising prothrombin and factor X onto an anion exchange medium; and
 - (b) <u>subjecting solvent-detergent virus inactivating of</u> the prothrombin and factor X to a virus inactivation procedure by adding solvent and detergent to said prothrombin and <u>factor X</u> on the anion exchange medium, <u>wherein the solvent is tri-n-butyl phosphate</u>; [[.]]
 - (c) washing the anion exchange medium to remove reagents used for the solventdetergent virus inactivating the virus inactivation procedure in step (b)(a);
 - (d) activating the factor X on the anion exchange medium to form factor Xa by addition of metal ions; and
 - (e) loading virus-inactivated prothrombin onto the anion exchange medium such that thrombin is generated, wherein a fraction of the thrombin has a specific activity of at least 2000 International Units per mg of protein.

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- 22. (**Previously presented**) The method according to claim 21 wherein the metal ions are divalent metal ions.
- 23. (**Previously presented**) The method according to claim 22 wherein the divalent metal ions are magnesium and/or calcium ions.
- 24. (Previously presented) The method according to claim 21, further comprising the step of
 - (e) selectively eluting the thrombin from the anion exchange medium.
- 25. (Previously presented) The method according to claim 24, further comprising the steps of
 - (f) passing the product of step (e) through a filter which retains pathogens;
 - (g) adding a divalent metal ion and a carbohydrate to the product of step (f), and
 - (h) freeze-drying and heat-treating the product of step (g) to inactivate viruses.
- 26. (Currently amended) The method according to Claim 1, wherein step (d) is performed without addition of phospholipids phospholipids.
- 27. (**Currently amended**) The method according to Claim 3, wherein step (d) is performed without addition of <u>phospholipids phospholipids</u>.
- 28. (Currently amended) The method according to Claim 16, wherein step (d) is performed without addition of phospholipids phospholipids.
- 29. (Currently amended) The method according to Claim 21, wherein step (d) is performed without addition of phospholipids phospholipids.